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Human Crossveinless-2 is a novel inhibitor of bone morphogenetic proteins.
Biochem Biophys Res Commun. 2004 Mar 5;315(2):272-80.
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J Soc Biol. 2003;197(3):283-9. French.
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Integration of IGF, FGF, and anti-BMP signals via Smad1 phosphorylation in neural induction.
Genes Dev. 2003 Dec 15;17(24):3023-8.
PMID: 14701872 [PubMed - indexed for MEDLINE]

- ☐ 4: [Nakayama N, Han CY, Cam L, Lee JI, Pretorius J, Fisher S, Rosenfeld R, Scully S, Nishinakamura R, Duryea D, Van G, Bolon B, Yokota T, Zhang K.](#) Related Articles, Link

A novel chordin-like BMP inhibitor, CHL2, expressed preferentially in chondrocytes of developing cartilage and osteoarthritic joint cartilage.
Development. 2004 Jan;131(1):229-40. Epub 2003 Dec 03.
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- ☐ 5: [Hyvonen M.](#) Related Articles, Link










CHRD, a novel domain in the BMP inhibitor chordin, is also found in microbial proteins.
Trends Biochem Sci. 2003 Sep;28(9):470-3. Review.
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- ☐ 6: [Blitz IL, Cho KW, Chang C.](#) Related Articles, Link

Twisted gastrulation loss-of-function analyses support its role as a BMP inhibitor during early Xenopus embryogenesis.
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- ☐ 7: [Pappano WN, Steiglitz BM, Scott IC, Keene DR, Greenspan DS.](#) Related Articles, Link

Use of Bmp1/Tll1 doubly homozygous null mice and proteomics to identify and validate in vivo substrates of bone morphogenetic protein 1/tolloid-like metalloproteinases.
Mol Cell Biol. 2003 Jul;23(13):4428-38.
PMID: 12808086 [PubMed - indexed for MEDLINE]

- ☐ **8:** [Wilkinson L, Kolle G, Wen D, Piper M, Scott J, Little M.](#) [Related Articles](#), [Link](#)
 **CRIM1 regulates the rate of processing and delivery of bone morphogenetic proteins to the cell surface.**
J Biol Chem. 2003 Sep 5;278(36):34181-8. Epub 2003 Jun 12.
PMID: 12805376 [PubMed - indexed for MEDLINE]
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 **Caveolin-1 and caveolin-2, together with three bone morphogenetic protein-related genes, may encode novel tumor suppressors down-regulated in sporadic follicular thyroid carcinogenesis.**
Cancer Res. 2003 Jun 1;63(11):2864-71.
PMID: 12782592 [PubMed - indexed for MEDLINE]
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 **Induction of neural crest in Xenopus by transcription factor AP2alpha.**
Proc Natl Acad Sci U S A. 2003 Jan 21;100(2):532-7. Epub 2003 Jan 02.
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PMID: 12508231 [PubMed - indexed for MEDLINE]
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 **Xolloid-related: a novel BMP1/Tolloid-related metalloprotease is expressed during early Xenopus development.**
Mech Dev. 2002 Dec;119(2):177-90.
PMID: 12464431 [PubMed - indexed for MEDLINE]
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 **The Xenopus receptor tyrosine kinase Xror2 modulates morphogenetic movements of the axial mesoderm and neuroectoderm via Wnt signaling.**
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PMID: 12399314 [PubMed - indexed for MEDLINE]
- ☐ **14:** [Vonica A, Gumbiner BM.](#) [Related Articles](#), [Link](#)
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Genes Cells. 2002 May;7(5):487-96.
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 **Chordin-like CR domains and the regulation of evolutionarily conserved extracellular signaling systems.**
Gene. 2002 Apr 3;287(1-2):39-47. Review.
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- ☐ 17: [Oostendorp RA, Medvinsky AJ, Kusadasi N, Nakayama N, Harvey K, Orelia C, Ottersbach K, Covey T, Ploemacher RE, Saris C, Dzierzak E.](#) [Related Articles](#), [Link](#)



Embryonal subregion-derived stromal cell lines from novel temperature-sensitive SV40 T antigen transgenic mice support hematopoiesis.

J Cell Sci. 2002 May 15;115(Pt 10):2099-108.

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- ☐ 18: [Larain J, Oelgeschlager M, Ketpura NI, Reversade B, Zakin L, De Robertis EM.](#) [Related Articles](#), [Link](#)



Proteolytic cleavage of Chordin as a switch for the dual activities of Twisted gastrulation in BMP signaling.

Development. 2001 Nov;128(22):4439-47.

PMID: 11714670 [PubMed - indexed for MEDLINE]

- ☐ 19: [Pera EM, Wessely O, Li SY, De Robertis EM.](#) [Related Articles](#), [Link](#)



Neural and head induction by insulin-like growth factor signals.

Dev Cell. 2001 Nov;1(5):655-65.

PMID: 11709186 [PubMed - indexed for MEDLINE]

- ☐ 20: [Millet C, Lemaire P, Orsetti B, Guglielmi P, Francois V.](#) [Related Articles](#), [Link](#)



The human chordin gene encodes several differentially expressed spliced variants with distinct BMP opposing activities.

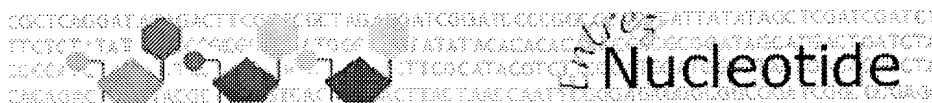
Mech Dev. 2001 Aug;106(1-2):85-96.

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Mus musculus chordin-like 1, mRNA (cDNA clone MGC:76607
IMAGE:30102312), complete cds
gi|44890680|gb|BC066832.1|[44890680]
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Homo sapiens chromosome 3 genomic contig
gi|37550867|ref|NT_005612.14|Hs3_5769[37550867]
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gi|30089979|ref|NM_003741.2|[30089979]
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Mus musculus chordin (Chrd), mRNA
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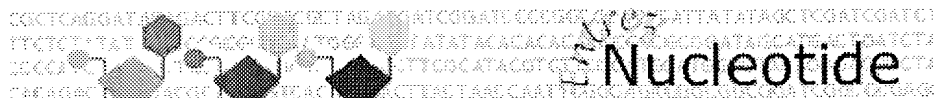
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Mus musculus chromosome 16 genomic contig, Celera_Mmu16
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Homo sapiens clone DNA35917 chordin (UNQ217) mRNA, complete cds
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Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810022C01 product:CHORDIN-RELATED PROTEIN NEURALIN-2 homolog [Mus musculus], full insert sequence
gi|12841206|dbj|AK007577.1|[12841206]
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Mus musculus chordin-related protein neuralin-2 mRNA, complete cds
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- ☐ **35:** [AH009297](#) Links
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- ☐ **37:** [AF031230](#) Links
Gallus gallus chordin mRNA, complete cds
gi|2826738|gb|AF031230.1|AF031230[2826738]
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Xenopus laevis Zic-related-1 protein (zic-1) mRNA, complete cds
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